

Kembra L. Howdeshell

Education

- B.S., Friends University, Wichita, KS; Biology, 1991.
- M.S., Emporia State University, Emporia, KS; Biology, 1996.
- Ph.D., University of Missouri-Columbia, Columbia, MO; Biology, 2002.

Professional Experience

- 2006-Present: Research Biologist/Postdoctoral Fellow, EPA.
- 2004-2006: Postdoctoral Trainee, North Carolina State University/EPA.

Awards and Honors

- Second Place Award for Graduate Student/Postdoctoral Trainee presentations in the Reproductive and Developmental Toxicology Section of the 45th Annual Meeting of the Society of Toxicology, San Diego, CA. 2006.
- Best Poster Award for Graduate Students/Postdoctoral Trainees, Environmental Endocrine Disruptors: Gordon Research Conference, Colby-Sawyer College, New London, NH. 2004.

Professional Societies

- Society for the Study of Reproduction
- Sigma Xi Scientific Society
- Society for Integrative and Comparative Biology

Invited Lectures/Symposia

- 36th Session of the Erice International Seminars on Planetary Emergencies and Associated Workshops, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy. Cellular and molecular mechanisms of phthalate-induced abnormal reproductive development in male rats: Relevance to humans? 2006.
- 5th Trans-Tech Meeting, Uppsala University, Umea University, and the Karolinska Institute, Stockholm, Sweden/Uppsala Sweden: Bisphenol A release from polycarbonate caging: Evidence of leaching and estrogenic effects on laboratory animals. 2004.
- 18th Workshop of the International School of Ethology on “Impact of Endocrine Disruptors on Brain Development and Behavior”, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy. A model of the development of the brain as a construct of the thyroid system. 2002.

Selected Publications

- Wilson VS, Howdeshell K, Lambright CS, Furr JR, Gray LE. 2007. Differential expression of the phthalate syndrome in male Sprague Dawley and Wistar rats after *in utero* DEHP exposure. *Toxicol Lett.* 170:177-84. [Abstract](#)
- Howdeshell KL, Furr JR, Lambright CS, Wilson VS, Gray LE. 2007. Cumulative effects of dibutyl phthalate and diethylhexyl phthalate on male rat reproductive tract development: Altered fetal steroid hormones and genes. *Toxicol Sci.* 99:190-202. [Abstract](#)
- Blystone CR, Lambright CS, Howdeshell KL, Furr J, Sternberg RM, Butterworth BC, Durhan EJ, Makynen EA, Ankley GT, Wilson VS, Leblanc GA, Gray LE.. 2007. Sensitivity of fetal rat testicular steroidogenesis to maternal prochloraz exposure and the underlying mechanism of inhibition. *Toxicol Sci.* 97:512-9. [Abstract](#)
- Blystone C, Furr JR, Lambright CS, Ryan BC, Howdeshell K, Wilson VS, Leblanc GA, Gray LE. 2007. Prochloraz inhibits testosterone production at dosages below those that affect androgen-dependent organ weights or the onset of puberty in the male Sprague Dawley rat. *Toxicol Sci.* 97:65-74. [Abstract](#)
- Gray LE, Wilson VS, Stoker TE, Lambright CS, Furr JR, Noriega NC, Howdeshell K, Ankley GT, Guillette L. 2006. Adverse effects of environmental antiandrogens and androgens on reproductive development in mammals. *Int J Androl.* 29:96-104; 105-8. [Abstract](#)
- Timms BG, Howdeshell KL, Barton L, Bradley S, Richter CA, vom Saal FS. 2005. Estrogenic chemicals in plastic and oral contraceptives disrupt development of the fetal mouse prostate and urethra. *Proc Natl Acad Sci U S A.* 102:7014-9. [Abstract](#)
- Howdeshell KL, Peterman PH, Judy BM, Taylor JA, Orazio CE, Ruhlen RL, Vom Saal FS, Welshons WV. 2003. Bisphenol A is released from used polycarbonate animal cages into water at room temperature. *Environ Health Perspect.* 111:1180-7. [Abstract](#)
- Alworth LC, Howdeshell KL, Ruhlen RL, Day JK, Lubahn DB, Huang TH, Besch-Williford CL, vom Saal FS. 2002. Uterine responsiveness to estradiol and DNA methylation are altered by fetal exposure to diethylstilbestrol and methoxychlor in CD-1 mice: Effects of low versus high doses. *Toxicol Appl Pharmacol.* 183:10-22. [Abstract](#)
- Palanza PL, Howdeshell KL, Parmigiani S, vom Saal FS. 2002. Exposure to a low dose of bisphenol A during fetal life or in adulthood alters maternal behavior in mice. *Environ Health Perspect.* 110 Suppl 3:415-22. [Abstract](#).
- Howdeshell KL. 2002. A model of the development of the brain as a construct of the thyroid system. *Environmental Health Perspectives.* 110:337-348. [Abstract](#)